



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX  
75 Hawthorne Street  
San Francisco, CA 94105-3901

SFUND RECORDS CTR  
69750

Date: 12/03/99

MEMORANDUM

SUBJECT: Summary of Data Quality

FROM: Carl Brickner, Jr., Environmental Scientist  
Quality Assurance Program (QAP), PMD-3

THROUGH: Vance S. Fong, P.E., Manager *Vance S. Fong*  
Quality Assurance Program (QAP), PMD-3

TO: Doug Frazer, Remedial Project Manager  
Southern California Cleanup Section, SFD-7-3

Eleven (11) water samples from Whittier Narrows were sampled on August 23, 1999. The samples were submitted to the USEPA Region IX Laboratory for Perchlorate analysis on August 24, 1999. A data package was submitted to the Quality Assurance Program on September 27, 1999 for final review.

An evaluation of the data package was performed by the QA Program with the goal of providing a brief summary of key analytical issues/deficiencies affecting data quality. This evaluation approach is employed when in-depth data review is not required as indicated in the Quality Assurance Project Plan. Nothing was found during this limited evaluation that would indicate a need for further review based on the use of the data.

This evaluation included: a review of the data packages for completeness, review of the chain of custody forms (against laboratory reported information, for signatures, for sample condition upon receipt by the laboratory and for sample preservation), review of holding times, review of QC summaries, review of blanks for contamination, random check of reported results against raw data, random check of raw data for interference problems or system control problems (e.g. baseline anomalies, baseline drifts, etc.).

The following data quality issue should be noted:

Due to method limitations as referenced in "The Inter-Agency Perchlorate Steering Committee Analytical Subcommittee Report", 1999 and the State of California Department of Health Services document "The Determination of Perchlorate in Water by Ion Chromatography, Rev. No.0", 1997 perchlorate does not resolve well at low levels in environmental samples with high total dissolved solids, chloride, or sulfate. This method bias may affect perchlorate at project specified levels of interest and should be kept in mind when using the data.

If the data user requires further assistance or has any questions concerning this Summary of Data Quality contact Carl Brickner at (415) 744-1536.

Attachments

cc: Brenda Bettencourt, Laboratory Section, PMD-2

**EPA REGION 9 LABORATORY-RICHMOND, CA**  
**SUMMARY OF ANALYTICAL RESULTS**

**Case Number:** R99S49  
**Site:** Whittier Narrows Quarterly  
**SDG:** 99231A / 99236A  
**Date:** 09/22/99

**Analysis:** Perchlorate  
**Matrix:** Water

Sample No.	39		40		41		42		43		44		45	
Sample I.D.	WN99173		WN99174		WN99175		WN99176		WN99177		WN99178		WN99179	
Lab Sample I.D.	AB23628		AB23629		AB23630		AB23631		AB23632		AB23633		AB23634	
Date of Collection	08/23/99		08/23/99		08/23/99		08/23/99		08/23/99		08/23/99		08/23/99	
Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Analyte	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Perchlorate	5	U	8		5	U	5	U	5	U	5	U	5	U

Q - Laboratory Data Qualifiers; Refer to EPA Region 9 Laboratory Qualifier Definitions

QL - Quantitation Limit

Sample No.	46		47		48		49		N/A		N/A
Sample I.D.	WN99180		WN99181		WN99182		WN99183		Reagent Blank		Quant.Limit
Lab Sample I.D.	AB23635		AB23636		AB23637		AB23638		N/A		N/A
Date of Collection	08/23/99		08/23/99		08/23/99		08/23/99		N/A		N/A
Units	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L
Analyte	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result
Perchlorate	5	U	5	U	5	U	5	U	5	U	5

Q - Laboratory Data Qualifiers; Refer to EPA Region 9 Laboratory Qualifier Definitions

QL - Quantitation Limit